

096429-9141.ST25.txt
SEQUENCE LISTING

<110> Welch, Rodney A.
Lathem, Wyndham W.
Grys, Thomas E.

<120> E. COLI O157:H7 C1-INH-BINDING PROTEIN AND METHODS OF USE

<130> 096429-9141

<140> New Patent Application

<141> 2004-02-25

<150> 10/002,309

<151> 2001-10-26

<150> 60/243,675

<151> 2000-10-26

<160> 25

<170> PatentIn version 3.1

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<223> Description of Unknown Organism: E. coli O157:H7 plasmid pO157

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<221> CDS

<222> (138)..(2798)

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                1          5          10

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<223> Description of Unknown Organism: E. coli O157:H7 plasmid p0157

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 Ser Leu Pro Asp Thr Ile Tyr His Leu Asp Gly Val Pro Glu Gly Gly
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 Ala Glu Val Asn Lys Leu Ser Asp Ala Ser Gly Ser Ser Ile His Ser
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 Trp Val Arg Asp Ile Tyr Leu Pro Gln Gly Pro Asp Leu Glu Gly Lys
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 Ala Lys Asp Lys Glu Ala His Arg Glu Tyr Phe Gln Thr Ile Pro Val
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 Gly Trp His Ser Gly Thr Met Arg Gln Arg Ile Gly Lys Glu Leu Val
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Ser His Gly Ile Asp Asn Ala Asn Tyr Gly Leu Asn Ser Thr Ala Gly
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 Ser His Glu Val Gly His Asn Tyr Gly Leu Gly His Tyr Val Asp Gly
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 Gly Trp Asp Gly Asp Lys Lys Arg Phe Ile Pro Asn Phe Tyr Pro Ser
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 Ser Ala Ala Asn Arg Phe Thr Met Tyr Thr Pro Asn Ser Ser Ala Ile
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 Lys Val His Met Trp Asn Gly Asn Trp Thr Arg Asn Ile Tyr Ile Pro
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Val Asp Thr Lys Glu Gly Gln Leu Arg Phe Arg Leu Ala Asn His Arg
725 730 735

Ala Asn Asn Thr Val Met Asn Lys Phe His Ile Asn Val Pro Thr Glu
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Ser Gln Pro Thr Gln Ala Thr Leu Val Cys Asn Asn Lys Ile Leu Asp
755 760 765

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Gly Gln Ala Leu Pro Ala Lys Glu Asn Glu Gly Cys Ile Val Ser Val
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Asn Ser Gly Lys Arg Tyr Cys Leu Pro Val Gly Gln Arg Ser Gly Tyr
805 810 815

Ser Leu Pro Asp Trp Ile Val Gly Gln Glu Val Tyr Val Asp Ser Gly
820 825 830

Ala Lys Ala Lys Val Leu Leu Ser Asp Trp Asp Asn Leu Ser Tyr Asn
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Arg Ile Gly Glu Phe Val Gly Asn Val Asn Pro Ala Asp Met Lys Lys
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<223> Description of Unknown Organism: E. coli O157:H7 plasmid p0157

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<210> 17

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<213> Synthetic Oligonucleotide

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<223> Description of Unknown Organism: E. coli 0157:H7 plasmid p0157

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His Pro Lys Glu Gly Asp Ser Gln Pro His Leu Thr Ser Leu Arg Lys
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Ser Leu Leu Leu Val Arg Pro Val Lys Ala Asp Asp Lys Thr Pro Val
80 85 90cag gtg gaa gcc cgc gat gat aat aat aaa att ctc ggt acg tta acc 458
Gln Val Glu Ala Arg Asp Asp Asn Asn Lys Ile Leu Gly Thr Leu Thr
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ctg Leu	gag Glu	aat Asn	aat Asn	cga Arg 240	atc Ile	act Thr	tat Tyr	gct Ala	cag Gln 245	cat His	att Ile	tgg Trp	agt Ser	gct Ala 250	gaa Glu	890
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gag Glu 285	ctg Leu	ttg Leu	ttg Leu	cat His	aca Thr	att Ile 290	gat Asp	atc Ile	ggg Gly	atg Met	ttg Leu 295	acc Thr	act Thr	ccc Pro	cgg Arg	1034
gat Asp 300	cgc Arg	ttt Phe	gat Asp	ttt Phe	gcc Ala 305	aaa Lys	gac Asp	aaa Lys	gaa Glu	gca Ala 310	cat His	agg Arg	gaa Glu	tat Tyr	ttc Phe 315	1082
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cac His	cta Leu	aag Lys	gaa Glu 335	gtt Val	atg Met	tta Leu	cca Pro	acc Thr 340	gga Gly	gag Glu	tta Leu	ttg Leu	aca Thr 345	gat Asp	atg Met	1178
gat Asp	cca Pro	gga Gly 350	aat Asn	ggt Gly	ggg Gly	tgg Trp	cat His 355	agt Ser	ggt Gly	aca Thr	atg Met	cgt Arg 360	caa Gln	aga Arg	ata Ile	1226
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aat Asn 380	agt Ser	acc Thr	gca Ala	ggc Gly	tta Leu 385	ggg Gly	gag Glu	aat Asn	agt Ser	cat His 390	cca Pro	tat Tyr	gta Val	gtt Val	gcg Ala 395	1322
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ttg Leu	ggg Gly	aat Asn 430	gag Glu	ttc Phe	agt Ser	cat His	gat Asp 435	gtt Val	ggg Gly	cat His	aat Asn	tat Tyr 440	ggg Gly	ctt Leu	ggg Gly	1466
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gat Asp 540	agc Ser	cgt Arg	tcc Ser	tcc Ser	acc Thr 545	ggc Gly	ttc Phe	agc Ser	aag Lys	tgg Trp 550	aat Asn	gca Ala	gat Asp	acg Thr	cag Gln 555	1802
gaa Glu	atg Met	gaa Glu	ccg Pro	tat Tyr 560	gaa Glu	cac His	acc Thr	att Ile	gac Asp 565	cgt Arg	gcg Ala	gag Glu	cag Gln	att Ile 570	acg Thr	1850
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gag Glu	tac Tyr	gct Ala 590	gtc Val	gtc Val	aaa Lys	gtg Val	cat His 595	atg Met	tgg Trp	aac Asn	ggg Gly	aac Asn 600	tgg Trp	aca Thr	aga Arg	1946
aac Asn	atc Ile 605	tat Tyr	atc Ile	cct Pro	aca Thr	gcc Ala 610	tcc Ser	gca Ala	gat Asp	aat Asn	aga Arg 615	ggc Gly	agt Ser	atc Ile	ctg Leu	1994
acc Thr 620	atc Ile	aac Asn	cat His	gag Glu	gcc Ala 625	ggg Gly	tat Tyr	aat Asn	agt Ser	tat Tyr 630	ctg Leu	ttt Phe	ata Ile	aat Asn	ggg Gly 635	2042
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gat Asp	ccg Pro 685	gaa Glu	ggc Gly	acg Thr	ctg Leu	tca Ser 690	agc Ser	tac Tyr	atc Ile	tat Tyr	cct Pro 695	gcg Ala	atg Met	tat Tyr	ggt Gly	2234
gcc Ala 700	tat Tyr	ggc Gly	ttc Phe	act Thr	tat Tyr 705	tcc Ser	gat Asp	gat Asp	agt Ser	cag Gln 710	aat Asn	cta Leu	tcc Ser	gat Asp	aac Asn 715	2282
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gct Ala 860	gat Asp	atg Met	aaa Lys	aaa Lys	gtt Val 865	aaa Lys	gcc Ala	tgg Trp	aac Asn	gga Gly 870	cag Gln	tat Tyr	ttg Leu	gac Asp	ttc Phe 875	2762
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Asn Thr Ser Gln Pro Ile Asn Asp Leu Gln Gly Ser Leu Ala Ala Glu
 35 40 45

Val Lys Phe Ala Gln Ser Gln Ile Leu Pro Ala His Pro Lys Glu Gly
 50 55 60

Asp Ser Gln Pro His Leu Thr Ser Leu Arg Lys Ser Leu Leu Leu Val
 65 70 75 80

Arg Pro Val Lys Ala Asp Asp Lys Thr Pro Val Gln Val Glu Ala Arg
 85 90 95

Asp Asp Asn Asn Lys Ile Leu Gly Thr Leu Thr Leu Tyr Pro Pro Ser
 100 105 110

Ser Leu Pro Asp Thr Ile Tyr His Leu Asp Gly Val Pro Glu Gly Gly
 115 120 125

Ile Asp Phe Thr Pro His Asn Gly Thr Lys Lys Ile Ile Asn Thr Val
 130 135 140

Ala Glu Val Asn Lys Leu Ser Asp Ala Ser Gly Ser Ser Ile His Ser
 145 150 155 160

His Leu Thr Asn Asn Ala Leu Val Glu Ile His Thr Ala Asn Gly Arg
 165 170 175

Trp Val Arg Asp Ile Tyr Leu Pro Gln Gly Pro Asp Leu Glu Gly Lys
 180 185 190

Met Val Arg Phe Val Ser Ser Ala Gly Tyr Ser Ser Thr Val Phe Tyr
 195 200 205

Gly Asp Arg Lys Val Thr Leu Ser Val Gly Asn Thr Leu Leu Phe Lys
 210 215 220

Tyr Val Asn Gly Gln Trp Phe Arg Ser Gly Glu Leu Glu Asn Asn Arg
 225 230 235 240

Ile Thr Tyr Ala Gln His Ile Trp Ser Ala Glu Leu Pro Ala His Trp
 245 250 255
 Ile Val Pro Gly Leu Asn Leu Val Ile Lys Gln Gly Asn Leu Ser Gly
 260 265 270
 Arg Leu Asn Asp Ile Lys Ile Gly Ala Pro Gly Glu Leu Leu Leu His
 275 280 285
 Thr Ile Asp Ile Gly Met Leu Thr Thr Pro Arg Asp Arg Phe Asp Phe
 290 295 300
 Ala Lys Asp Lys Glu Ala His Arg Glu Tyr Phe Gln Thr Ile Pro Val
 305 310 315 320
 Ser Arg Met Ile Val Asn Asn Tyr Ala Pro Leu His Leu Lys Glu Val
 325 330 335
 Met Leu Pro Thr Gly Glu Leu Leu Thr Asp Met Asp Pro Gly Asn Gly
 340 345 350
 Gly Trp His Ser Gly Thr Met Arg Gln Arg Ile Gly Lys Glu Leu Val
 355 360 365
 Ser His Gly Ile Asp Asn Ala Asn Tyr Gly Leu Asn Ser Thr Ala Gly
 370 375 380
 Leu Gly Glu Asn Ser His Pro Tyr Val Val Ala Gln Leu Ala Ala His
 385 390 395 400
 Asn Ser Arg Gly Asn Tyr Ala Asn Gly Ile Gln Val His Gly Gly Ser
 405 410 415
 Gly Gly Gly Gly Ile Val Thr Leu Asp Ser Thr Leu Gly Asn Glu Phe
 420 425 430
 Ser His Asp Val Gly His Asn Tyr Gly Leu Gly His Tyr Val Asp Gly
 435 440 445
 Phe Lys Gly Ser Val His Arg Ser Ala Glu Asn Asn Asn Ser Thr Trp
 450 455 460
 Gly Trp Asp Gly Asp Lys Lys Arg Phe Ile Pro Asn Phe Tyr Pro Ser
 465 470 475 480
 Gln Thr Asn Glu Lys Ser Cys Leu Asn Asn Gln Cys Gln Glu Pro Phe
 485 490 495
 Asp Gly His Lys Phe Gly Phe Asp Ala Met Ala Gly Gly Ser Pro Phe
 500 505 510

Ser Ala Ala Asn Arg Phe Thr Met Tyr Thr Pro Asn Ser Ser Ala Ile
 515 520 525
 Ile Gln Arg Phe Phe Glu Asn Lys Ala Val Phe Asp Ser Arg Ser Ser
 530 535 540
 Thr Gly Phe Ser Lys Trp Asn Ala Asp Thr Gln Glu Met Glu Pro Tyr
 545 550 555 560
 Glu His Thr Ile Asp Arg Ala Glu Gln Ile Thr Ala Ser Val Asn Glu
 565 570 575
 Leu Ser Glu Ser Lys Met Ala Glu Leu Met Ala Glu Tyr Ala Val Val
 580 585 590
 Lys Val His Met Trp Asn Gly Asn Trp Thr Arg Asn Ile Tyr Ile Pro
 595 600 605
 Thr Ala Ser Ala Asp Asn Arg Gly Ser Ile Leu Thr Ile Asn His Glu
 610 615 620
 Ala Gly Tyr Asn Ser Tyr Leu Phe Ile Asn Gly Asp Glu Lys Val Val
 625 630 635 640
 Ser Gln Gly Tyr Lys Lys Ser Phe Val Ser Asp Gly Gln Phe Trp Lys
 645 650 655
 Glu Arg Asp Val Val Asp Thr Arg Glu Ala Arg Lys Pro Glu Gln Phe
 660 665 670
 Gly Val Pro Val Thr Thr Leu Val Gly Tyr Tyr Asp Pro Glu Gly Thr
 675 680 685
 Leu Ser Ser Tyr Ile Tyr Pro Ala Met Tyr Gly Ala Tyr Gly Phe Thr
 690 695 700
 Tyr Ser Asp Asp Ser Gln Asn Leu Ser Asp Asn Asp Cys Gln Leu Gln
 705 710 715 720
 Val Asp Thr Lys Glu Gly Gln Leu Arg Phe Arg Leu Ala Asn His Arg
 725 730 735
 Ala Asn Asn Thr Val Met Asn Lys Phe His Ile Asn Val Pro Thr Glu
 740 745 750
 Ser Gln Pro Thr Gln Ala Thr Leu Val Cys Asn Asn Lys Ile Leu Asp
 755 760 765
 Thr Lys Ser Leu Thr Pro Ala Pro Glu Gly Leu Thr Tyr Thr Val Asn
 770 775 780

Gly Gln Ala Leu Pro Ala Lys Glu Asn Glu Gly Cys Ile Val Ser Val
785 790 795 800
Asn Ser Gly Lys Arg Tyr Cys Leu Pro Val Gly Gln Arg Ser Gly Tyr
805 810 815
Ser Leu Pro Asp Trp Ile Val Gly Gln Glu Val Tyr Val Asp Ser Gly
820 825 830
Ala Lys Ala Lys Val Leu Leu Ser Asp Trp Asp Asn Leu Ser Tyr Asn
835 840 845
Arg Ile Gly Glu Phe Val Gly Asn Val Asn Pro Ala Asp Met Lys Lys
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